

Recovery Plan Action Status

Plan Name: Autumn Buttercup

Plan Status: Final

Plan Date: 16-Sep-91

Lead Agency: USFWS

Lead Office: Utah Ecological Services Field Office

(501)

975-3330)

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Autumn Buttercup (Ranunculus aestivalis (=acrisformis))	1	1	Develop habitat management plan	Discontinued	Prior to FY 1995		The Nature Conservancy, Fish and Wildlife Enhancement, USFWS Regional Office 6 - Denver	Management: General, Management: Land Use, Management: Planning, Other: Administration, Other: Information and Education, Other: Regulations	Internal Technical Assistance, Species Expert	Although there has been active management at the TNC Preserve to conserve the species, no records of a draft management plan are on file.
Autumn Buttercup (Ranunculus aestivalis (=acrisformis))	1	10	Determine soil requirements	Partially Complete	Prior to FY 1995		Center for Plant Conservation, Soil Conservation Service , State of Utah, including the Utah Natural Heritage Inventory, Fish and Wildlife Enhancement, USFWS Regional Office 6 - Denver	Research: Habitat Requirements	Graduate Student	Van Buren 1994. Partial fulfillment of PhD 1994
Autumn Buttercup (Ranunculus aestivalis (=acrisformis))	1	11	Determine hydrology of habitat	Obsolete	Prior to FY 1995		The Nature Conservancy, State of Utah, including the Utah Natural Heritage Inventory, Fish and Wildlife Enhancement, USFWS Regional Office 6 - Denver	Research: Habitat Requirements, Research: Management Techniques, Research: Other Information	Graduate Student, Internal Field Assistance, Species Expert	
Autumn Buttercup (Ranunculus aestivalis (=acrisformis))	1	12	Determine pollination mechanism	Not Started			USDA Bee Biology and Systematics Laboratory, Logan, Utah , State of Utah, including the Utah Natural Heritage Inventory, Fish and Wildlife Enhancement, USFWS Regional Office 6 - Denver	Research: Other Information	Contract, Graduate Student, Internal Technical Assistance, Species Expert, Volunteer	

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Autumn Buttercup (<i>Ranunculus aestivalis</i> (= <i>acriiformis</i>))	1	13	Determine plant community	Ongoing Current	Prior to FY 1995		The Nature Conservancy, State of Utah, including the Utah Natural Heritage Inventory, Fish and Wildlife Enhancement, USFWS Regional Office 6 - Denver	Management: Habitat Maintenance and Manipulation, Management: Predator and Competitor Control, Research: Habitat Status, Research: Population Surveys	Species Expert	
Autumn Buttercup (<i>Ranunculus aestivalis</i> (= <i>acriiformis</i>))	1	14	Determine animal relationships	Ongoing Not Current	Prior to FY 1995		The Nature Conservancy, State of Utah, including the Utah Natural Heritage Inventory, Fish and Wildlife Enhancement, USFWS Regional Office 6 - Denver	Management: Land Use, Management: Planning, Research: Habitat Requirements, Research: Management Techniques	Graduate Student, Internal Field Assistance, Species Expert	A NFWF grant proposal was submitted by Weber State University in 2011 to determine the impacts of small rodents on reintroduced plants in grazed vs. ungrazed areas of the TNC Preserve. Awards have not yet been announced.
Autumn Buttercup (<i>Ranunculus aestivalis</i> (= <i>acriiformis</i>))	1	15	Determine phylogenetic relationship	Complete	Prior to FY 1995	Prior to FY 1995	Center for Plant Conservation, State of Utah, including the Utah Natural Heritage Inventory, Fish and Wildlife Enhancement, USFWS Regional Office 6 - Denver	Research: Taxonomic Studies	Species Expert	Van Buren, 1994. partial fulfillment of PhD
Autumn Buttercup (<i>Ranunculus aestivalis</i> (= <i>acriiformis</i>))	1	16	Reintroduce plants into potential habitat	Complete	Prior to FY 1995		The Nature Conservancy, Center for Plant Conservation, USFWS Regional Office 6 - Denver	Research: Demographic Studies, Research: Habitat Requirements, Research: Management Techniques, Research: Propagation, Research: Reintroduction	Graduate Student, Internal Field Assistance, Internal Technical Assistance, Species Expert, Volunteer	Task 6 will follow the initiation of tasks 2, 3, 4, and 5. Ca. 150 plants were introduced in 2007, and an additional 45 in 2010. No status report received yet but survival appears low.
Autumn Buttercup (<i>Ranunculus aestivalis</i> (= <i>acriiformis</i>))	1	17	Develop management plan	Ongoing Not Current	Prior to FY 1995		The Nature Conservancy, Center for Plant Conservation, USFWS Regional Office 6 - Denver	Management: Planning, Management: Predator and Competitor Control, Management: Reintroduction	Internal Administrative, Species Expert	

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Autumn Buttercup (<i>Ranunculus aestivalis</i> (=acriiformis))	1	18	Monitor new populations	Obsolete	Prior to FY 1995		National Park Service, U.S. Fish and Wildlife Service, Law Enforcement Division, U.S. Forest Service, Bureau Land Management, State of Utah, including the Utah Natural Heritage Inventory, Fish and Wildlife Enhancement, USFWS Regional Office 6 - Denver	Research: Demographic Studies	Graduate Student, Internal Field Assistance, Species Expert, Volunteer	As of 2011, no new populations have been found. No populations are currently monitored.
Autumn Buttercup (<i>Ranunculus aestivalis</i> (=acriiformis))	1	19	Protect new populations	Not Started			National Park Service, U.S. Forest Service, Bureau Land Management, State of Utah, including the Utah Natural Heritage Inventory, Fish and Wildlife Enhancement, USFWS Regional Office 6 - Denver	Work type not yet selected	Labor type not yet selected	Included in Task 1.3
Autumn Buttercup (<i>Ranunculus aestivalis</i> (=acriiformis))	1	2	Monitor existing population	Discontinued	Prior to FY 1995		The Nature Conservancy, State of Utah, including the Utah Natural Heritage Inventory, Fish and Wildlife Enhancement, USFWS Regional Office 6 - Denver	Management: Depredation Control, Management: General, Management: Habitat Maintenance and Manipulation, Management: Other, Management: Predator and Competitor Control, Research: Competition, Research: Demographic Studies, Research: Habitat Status, Research: Population Surveys	Graduate Student, Species Expert, Volunteer	No plants remain at the TNC Preserve as of 2010, therefore monitoring has been discontinued. No monitoring is taking place at the only other known site.

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Autumn Buttercup (Ranunculus aestivalis (=acriiformis))	2	20	Inform private landowners	Partially Complete	Prior to FY 1995		The Nature Conservancy, Center for Plant Conservation, Soil Conservation Service , State of Utah, including the Utah Natural Heritage Inventory, USFWS Regional Office 6 - Denver	Other: Administration, Other: Information and Education	Internal Administrative, Internal Field Assistance, Internal Technical Assistance, Species Expert	Made contact with the Farm Bureau, Water Conservation District and NRCS to locate the landowner of the second site. The landowner name and address were located and a site visit is planned in August 2011.
Autumn Buttercup (Ranunculus aestivalis (=acriiformis))	2	21	Develop public appreciation	Ongoing Current	Prior to FY 1995		Fish and Wildlife Enhancement, USFWS Regional Office 6 - Denver	Other: Information and Education	Internal Technical Assistance, Species Expert, Volunteer	Included in Task 7.1
Autumn Buttercup (Ranunculus aestivalis (=acriiformis))	2	22	Develop downlisting criteria	Not Started			Fish and Wildlife Enhancement, USFWS Regional Office 6 - Denver	Acquisition: General, Management: Habitat Maintenance and Manipulation, Management: Land Use, Management: Planning, Management: Predator and Competitor Control, Management: Propagation, Management: Reintroduction, Other: Administration, Other: Information and Education, Research: Competition, Research: Demographic Studies, Research: Genetics, Research: Habitat Requirements, Research: Habitat Status, Research: Management Techniques, Research: Other Information, Research: Population Surveys, Research: Predation, Research: Propagation, Research: Reintroduction	Internal Technical Assistance, Species Expert, Volunteer	Activity to be deferred until biological and ecological information is sufficient to accomplish

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Autumn Buttercup (Ranunculus aestivalis (=acriformis))	1	3	Enforce regulations	Ongoing Current	Prior to FY 1995		National Park Service, U.S. Fish and Wildlife Service, Law Enforcement Division, U.S. Forest Service, The Nature Conservancy, Bureau Land Management , Soil Conservation Service , State of Utah, including the Utah Natural Heritage Inventory, Fish and Wildlife Enhancement, USFWS Regional Office 6 - Denver	Other: Regulations	Volunteer	
Autumn Buttercup (Ranunculus aestivalis (=acriformis))	1	4	Rebuild preserve fence	Complete	Prior to FY 1995		The Nature Conservancy, USFWS Regional Office 6 - Denver	Management: Habitat Maintenance and Manipulation, Management: Predator and Competitor Control	Contract, Internal Technical Assistance, Species Expert, Volunteer	As of 2010, the fence is intact.
Autumn Buttercup (Ranunculus aestivalis (=acriformis))	1	5	Inventory habitat	Discontinued	Prior to FY 1995		National Park Service, U.S. Forest Service, Bureau Land Management , Soil Conservation Service , State of Utah, including the Utah Natural Heritage Inventory, Fish and Wildlife Enhancement, USFWS Regional Office 6 - Denver	Work type not yet selected	Labor type not yet selected	Costs for easements to defer grazing are not included. Potential habitat is on private lands not accessible for survey (2006).
Autumn Buttercup (Ranunculus aestivalis (=acriformis))	1	6	Acquire habitat	Partially Complete	Prior to FY 1995		The Nature Conservancy, State of Utah, including the Utah Natural Heritage Inventory, USFWS Regional Office 6 - Denver	Acquisition, Acquisition: Easement, Acquisition: Exchange, Acquisition: Fee Title, Acquisition: General, Acquisition: Lease, Acquisition: Management Agreement, Other: Information and Education	Internal Administrative	Costs indicated reflect estimated cost of acquiring fee title to 60 acres of private land plus the purchase of the buttercup preserve from The Nature Conservancy (TNC). TNC is managing for Autumn Buttercup. No current program to acquire lands from other private land owner.

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Autumn Buttercup (<i>Ranunculus aestivalis</i> (=acriformis))	1	7	Collect seed	Complete	FY 2005	FY 2008	The Nature Conservancy, Center for Plant Conservation, State of Utah, including the Utah Natural Heritage Inventory, Fish and Wildlife Enhancement, USFWS Regional Office 6 - Denver	Research: Habitat Status, Research: Population Surveys	Internal Field Assistance, Internal Technical Assistance, Species Expert, Volunteer	Seed was collected from the other private land (other than TNC).
Autumn Buttercup (<i>Ranunculus aestivalis</i> (=acriformis))	1	8	Determine horticultural requirements	Complete	Prior to FY 1995	FY 2009	Center for Plant Conservation, State of Utah, including the Utah Natural Heritage Inventory, Fish and Wildlife Enhancement, USFWS Regional Office 6 - Denver	Management: Reintroduction, Research: Competition, Research: Habitat Requirements, Research: Habitat Status, Research: Propagation, Research: Reintroduction	Contract, Internal Field Assistance, Internal Technical Assistance, Species Expert, Volunteer	Plants were grown from tissue culture at the Cincinnati Zoo, then transferred to the Flagstaff Arboretum. The Arboretum was successfully in getting the plants established in a horticultural setting.
Autumn Buttercup (<i>Ranunculus aestivalis</i> (=acriformis))	1	9	Produce propagules	Complete	Prior to FY 1995	FY 2010	Center for Plant Conservation, State of Utah, including the Utah Natural Heritage Inventory, USFWS Regional Office 6 - Denver	Research: Propagation	Contract, Species Expert	Plants have successfully been grown from tissue culture and then transferred to the Flagstaff Arboretum.